

#3

1 mktngfhkdfawkkollgasvgallvgosphiietnevalklnyh
61 lrpafqysd~~niakeyenkfkn~~qtlkveqilqnqgykvinvd~~ssdkddfsfa~~kkegyla
121 vamingeivlrpd~~pkrfiqkk~~sepgllfst~~gldk~~megvllpagfvkvtilep~~msges~~ldsf
161 tmd~~iseldiqekfik~~ttshshsgglvstmv~~kgtdnsnda~~ksalnki~~fgsim~~geidkklt
241 qknlesyqkdakelkgkrnr (SEQ ID NO:1)

FIG. 1

03648567.023102

Streptococcus pneumoniae psaA homologous sequence ->
(SEQ ID NO: 2)

x x x I D K x x T Q K x L E x x x D A x E L x x x x

H. pylori flagellar sheath adhesion protein sequence ->
(SEQ ID NO: 3)

M Q E I D K K L T Q K N L E S Y Q K D A K E L K G R N

Mycoplasma hominis Lp1 homologous sequence ->
(SEQ ID NO: 4)

x x E I x K K L x x x x E S x x K D A K E L x G x R N

FIG 2a

Streptococcus pneumoniae pspA homologous sequence ->
(SEQ ID NO: 2)

H. pylori flagellar sheath adhesion protein sequence ->
(SEQ ID NO: 3)

Mycoplasma hominis tpi homologous sequence ->
(SEQ ID NO: 4)

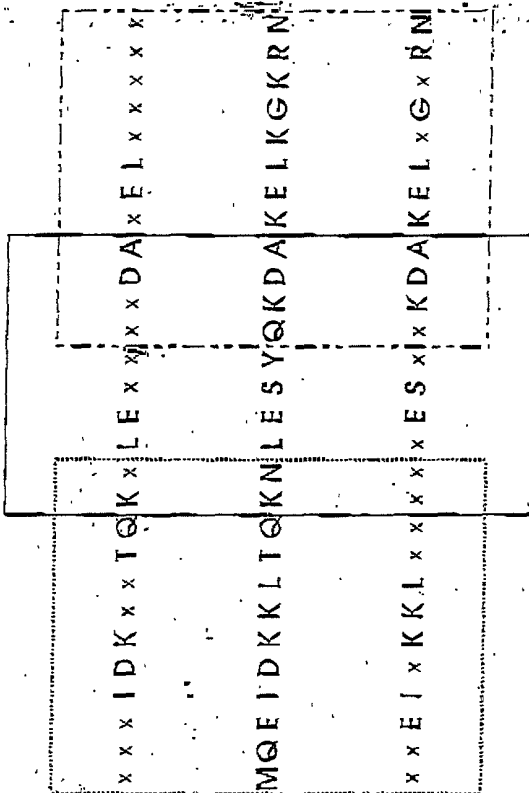


Figure 3 Plot

Figure 4 Plot

Figure 5 Plot

FIG 2b

(SEQ ID NO:5)
H. pylori Peptide MQEIDKKLTQKN¹ Test Data

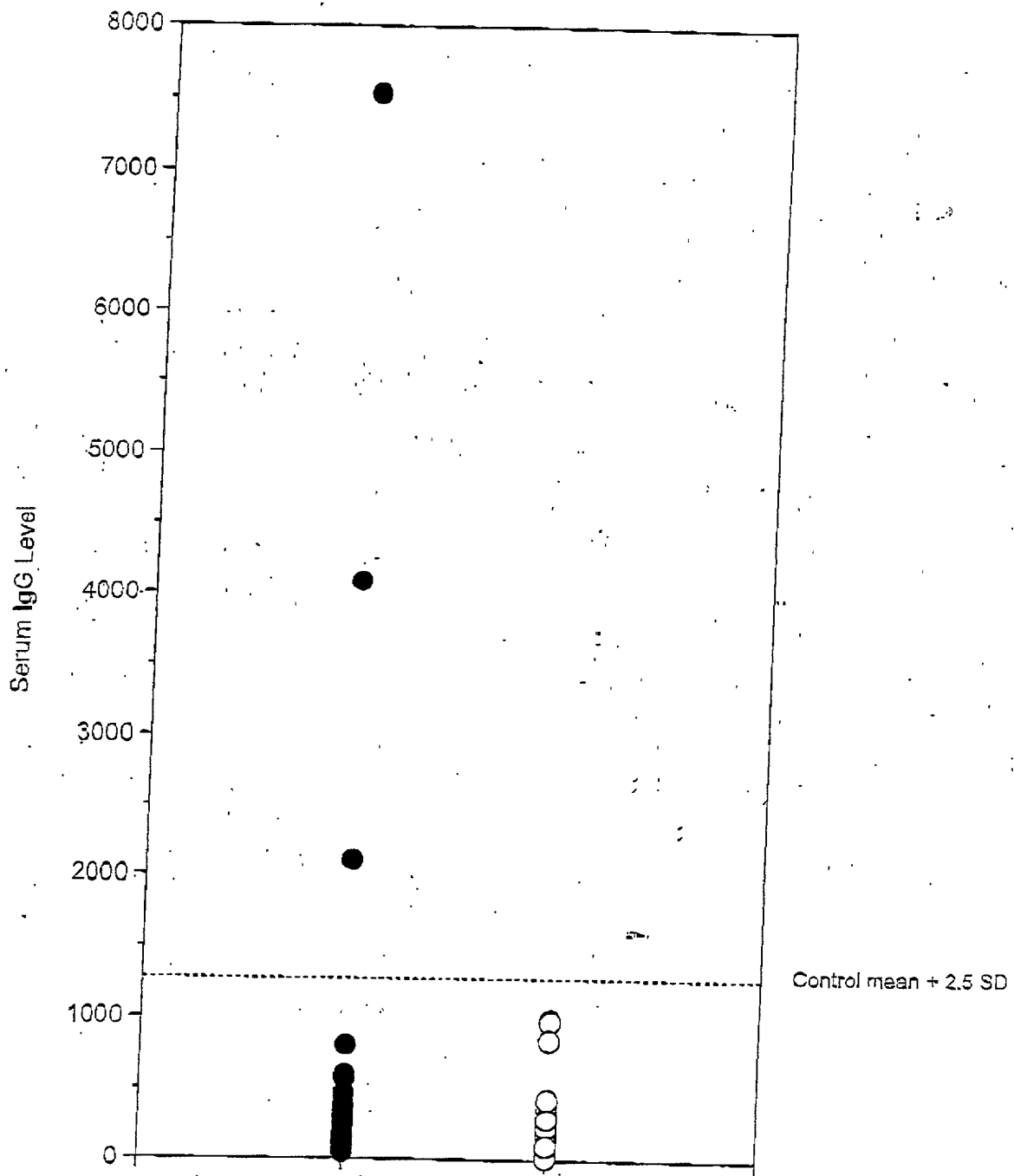


FIG. 3

● *H. pylori*-Positive Patient Sera
○ Control Subject Sera

(SEQ ID NO:6)
H. pylori Peptide KNLESYQKDA Data

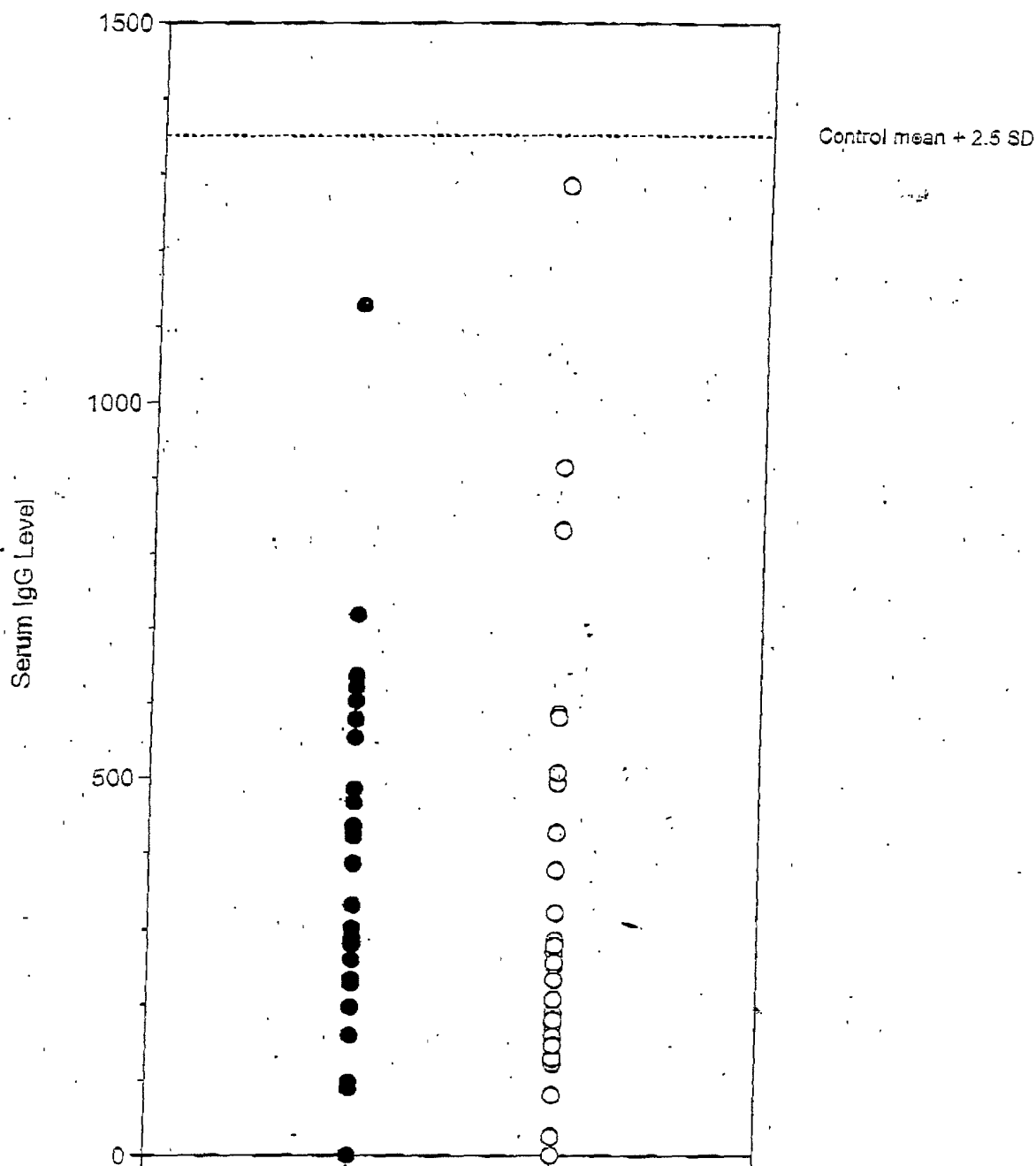


FIG. 4

- *H. pylori*-Positive Patient Sera
- Control Subject Sera

(SEQ ID NO:7)

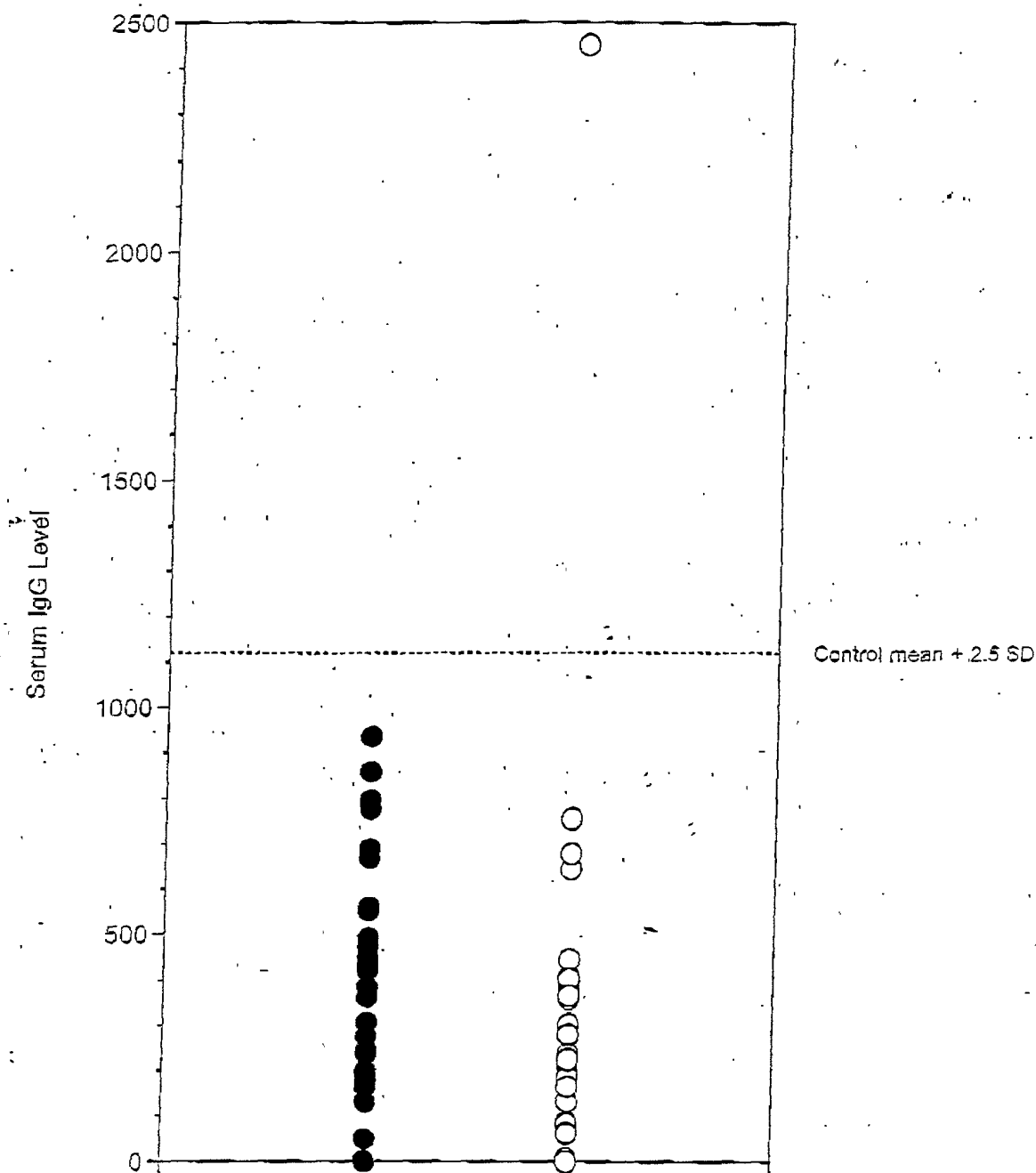
H. pylori Peptide QKDAKELKGKRN Data

FIG 5

- *H. pylori*-Positive Patient Sera
- Control Subject Sera

FIG. 6

Parent *H. pylori* Protein

Adhesin 2

Iron-Regulated Outer
Membrane Protein

Lipid A Disaccharide Synthase

LPP20 Lipoprotein

Flagellar Sheath Adhesin

Outer Membrane Protein 1

Outer Membrane Protein 19

Outer Membrane Porin 1

Outer Membrane Porin 2

Vacuolating Cytotoxin

Functionally Specific
Peptide Antigens

LPALKENNGKV (SEQ ID NO: 8)

VTTKGERTFEYNN (SEQ ID NO: 9)

LEQNEGFKRRV (SEQ ID NO: 10)

TVDASGKRSISG (SEQ ID NO: 11)

MQEIDKKLTQKN (SEQ ID NO: 12)

NTRYDRWAKD (SEQ ID NO: 13)

INGDKRTGGKPNTPE (SEQ ID NO: 14)

SSSEYEKLKA (SEQ ID NO: 15)

KEQHEAKGPDV (SEQ ID NO: 16)

QQTHRKINRP (SEQ ID NO: 17)

KQAEKANKTP (SEQ ID NO: 18)

KTPDKPKVW (SEQ ID NO: 19)

09843967.033103

[illegible]

FIG. 7a

Number of IgG-Positive Results On Individual Peptide Assays

[illegible]

Catfish & Co.

FIG. 7b

Number of IgG-Positive Results On Individual Peptide Assays

[illegible]

Human Type II Collagen Functionally Specific Peptide Antigens

QGQDVRQPG (SEQ ID NO: 20)

GRDGE (SEQ ID NO: 21)

GGFDEKAGGA (SEQ ID NO: 22)

WPGLPGA (SEQ ID NO: 23)

GLPGTPGTDGPKGASGPAGPPGAQGPPG (SEQ ID NO: 24)

GPEGAPGKDGGRGLT (SEQ ID NO: 25)

GEVGPPGPAGSAGARGAP (SEQ ID NO: 26)

TGPKGARGAQGPPGATGFPGAA (SEQ ID NO: 27)

NGNPGPPGPPGPS (SEQ ID NO: 28)

LQGPAGPP (SEQ ID NO: 29)

AVGAPGAPGPPGSPGPAGPTGKQGD (SEQ ID NO: 30)

KGHRGFTGLQ (SEQ ID NO: 31)

IGPPGPRGRSGETGPAGPPGN (SEQ ID NO: 32)

FIG 8